

**570LXT Loader/  
Loader Landscaper**  
Operators Manual

Bur 9-25895

Reprinted

**CASE**

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below

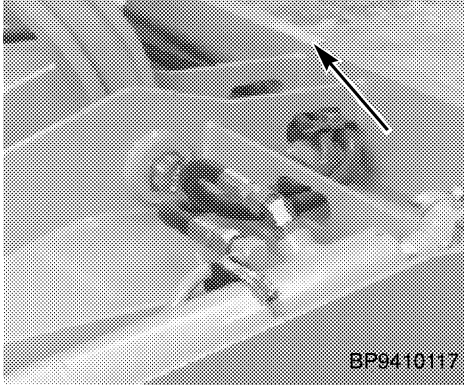


- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

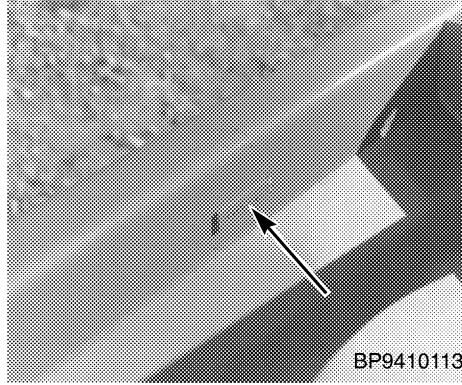
CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

TO THE OWNER

**4-In-1 Loader Bucket  
(Part Number)**



**Standard Loader Bucket  
(Part Number)**



TRIM THIS EDGE

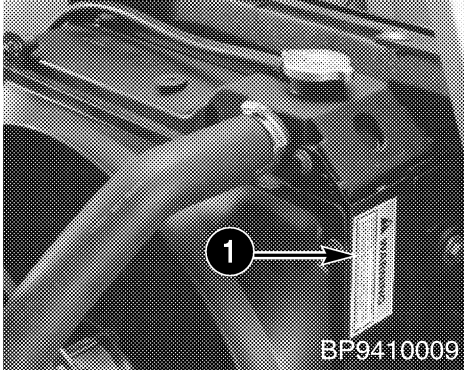
---

## SAFETY/DECALS/HAND SIGNALS

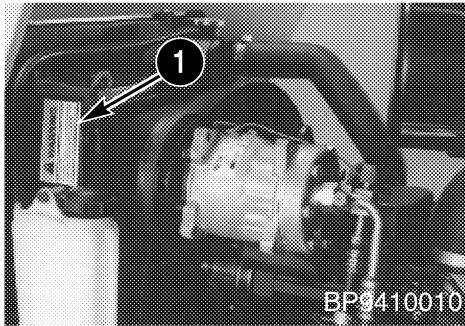
- Keep the loader bucket low when moving around the work area and be careful when you raise the load to dump.
- Operate the machine within the specified capacities and limits. Lifting capacities, digging depths, etc, are shown in the Specifications section of this manual.
- Operate the machine controls from the operators seat only.
- Digging through underground cables, pipes, lines, etc., can cause injury or death. Learn the location of all underground hazards before you operate your machine in any area.
- When working in areas where traffic is heavy always have a person direct the traffic and direct other persons for you. Have guard rails, warning signs, etc., as required for your job.
- Stop operating the machine if a malfunction occurs. Watch the indicator and warning lamps in the machine. Listen and smell for things that are not normal on your machine.
- Drive around large objects such as large rocks or trees.

TRIM THIS EDGE

SAFETY/DECALS/HAND SIGNALS



1. 321-6672 - RH



1. 321-6672 - LH

**WARNING**

CHECK AND SERVICE COOLING SYSTEM ACCORDING TO MAINTENANCE INSTRUCTIONS.  
HOT COOLANT CAN SPRAY OUT IF RADIATOR CAP IS REMOVED.  
TO REMOVE RADIATOR CAP: LET SYSTEM COOL; TURN TO FIRST NOTCH; THEN WAIT UNTIL ALL PRESSURE IS RELEASED.  
SCALDING CAN RESULT FROM FAST REMOVAL OF RADIATOR CAP.

CA

321-6672

TRIM THIS EDGE

## MACHINE CONTROLS

### Direction Control Lever



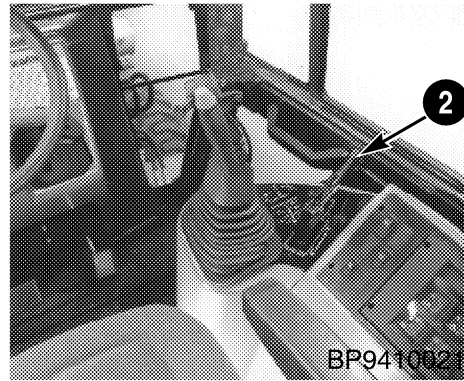
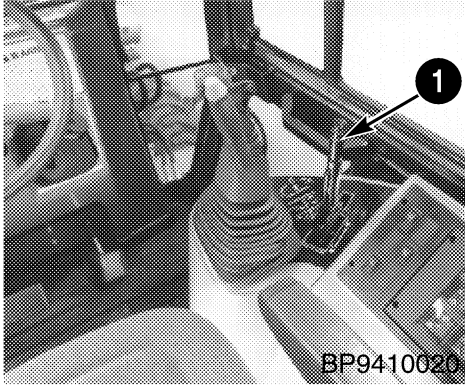
TRIM THIS EDGE

1. **DIRECTION CONTROL LEVER:** This lever controls the travel direction of the machine. The center position is NEUTRAL. To travel forward, lift the lever and push completely forward. To travel in reverse, lift the lever and pull completely rearward. Make sure the direction control lever is in NEUTRAL before you start the engine.

The direction control lever electrical circuit has an added feature which allows the operator to move the machine a short distance in the event the direction control lever receives intermittent signals that shift the transmission into neutral. By shifting the direction control lever to the opposite direction of travel that is desired, then back to the desired direction, the transmission will engage for approximately 5 seconds.

This procedure is to be used only in the event of an emergency when the unit must be moved to a safe location. Have the machine repaired immediately.

## Parking Brake



1. **PARKING BRAKE:** Pull the parking brake control lever up into a vertical position to apply the parking brake.

Push the parking brake control lever forward to release the parking brake.

**NOTE:** A warning buzzer will sound if you shift the direction control lever into *FORWARD* or *REVERSE* while the parking brake is engaged.

2. **PARKING BRAKE ADJUSTMENT:** Release the parking brake and turn the end of the lever clockwise two or three turns. Pull the parking brake lever back. See the topic Parking Brake Check on page 59 and test the parking brake. If the parking brake does not hold the machine, see the service manual or your dealer.

**IMPORTANT:** You can damage the parking brake, which is also the service brake, if you move the machine and the parking brake is applied.

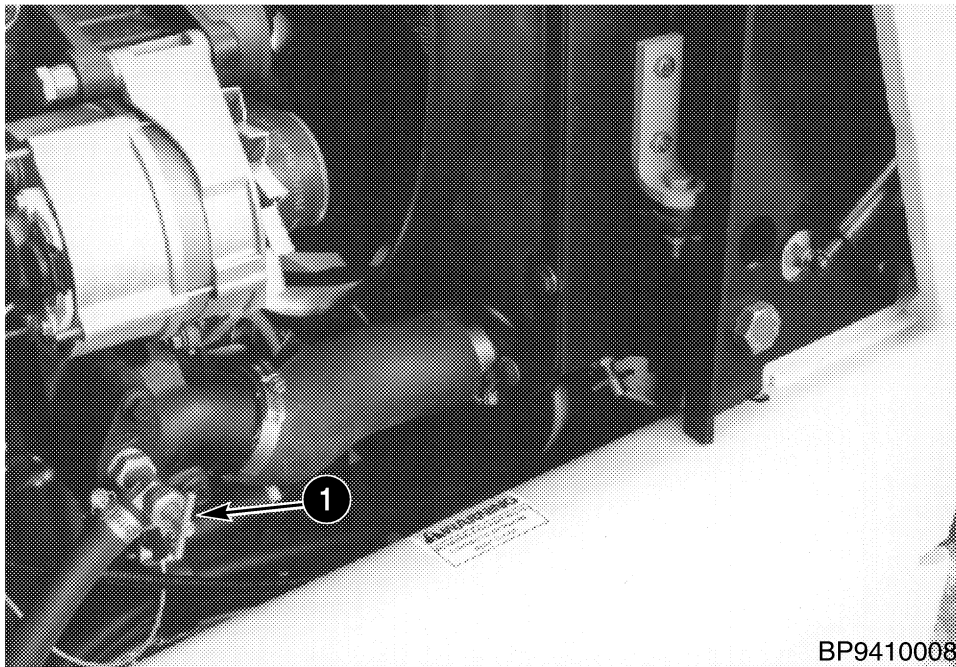
TRIM THIS EDGE

---

## INSTRUMENTS AND CONTROLS

- TEMPERATURE CONTROL FOR THE AIR CONDITIONER (If Equipped):** Turn the temperature control clockwise to decrease the temperature of the cab. Turn the control completely clockwise for the coldest setting. Turn the control completely counterclockwise for the OFF position.
- HEATER CONTROL (If Equipped):** Turn the heater control clockwise to increase the temperature in the cab. Turn the heater control counterclockwise to decrease the heat.
- FRONT WIPER SWITCH:** The front wiper switch has three positions, (1) OFF, (2) LOW and (3) HIGH. Turn the switch clockwise to increase the wiper speed and turn the switch counterclockwise to stop the wiper.


**HEAT SHUTOFF VALVE (See Below):** Be sure the engine is shut off and cool when making the following adjustments. During warm weather, turn the heater shut-off valve clockwise to stop the flow of hot coolant to the heater. Turn the heater shut-off valve counterclockwise when cold weather begins.




1. Heater shut-off Valve

TRIM THIS EDGE

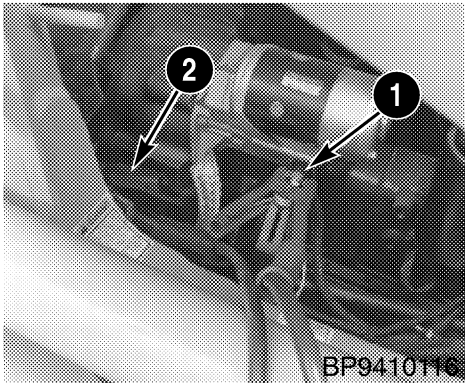
## Booster Battery Connection to Machine

 **WARNING:** When the battery electrolyte is frozen, the battery can explode if, (1) you try to charge the battery, or (2) you try to jump start and run the engine. To prevent the battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured.

SA033

 **WARNING:** Batteries produce explosive gases. Keep sparks, flame, and cigarettes away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries.

SA031



1. Positive Jumper Cable
2. Negative Jumper Cable

Two persons are required for this procedure. Make sure the person making the connection is wearing face protection.

1. Sit in the operators seat and have the other person make the connections. Make sure the booster batteries are 12 volt.
2. If using another machine for power, make sure the two machines do not touch.
3. Connect the positive (+) jumper cable to the positive (+) terminal as shown.
4. Connect the negative (-) jumper cable to the frame as shown.
5. Start the engine and have the other person disconnect the negative (-) jumper cable first and the positive (+) jumper cable last.

TRIM THIS EDGE

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

## OPERATING IN COLD WEATHER

Cold weather conditions cause special problems. During these conditions, your machine will require special attention to prevent serious damage. Cold weather maintenance will extend the service life of your machine.

### 1. BATTERY AND ELECTRICAL

**SYSTEM:** Clean the battery and make sure the battery(ies) is at full charge.

**NOTE:** *A fully charged battery at  $-17^{\circ}\text{C}$  ( $0^{\circ}\text{F}$ ) has only 40 percent of the normal starting power. Then, when the temperature decreases to  $-29^{\circ}\text{C}$  ( $-20^{\circ}\text{F}$ ), the battery has only 18 percent of the power remaining.*

If you add water to the battery(ies) and the temperature is below  $0^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ ), make sure you charge the battery(ies) or run the engine for approximately two hours. This procedure will prevent battery freezing.

Inspect the battery cables and terminals. Clean the terminals and put a coat of grease on each terminal to prevent corrosion.

**2. LUBRICANTS:** Use the correct viscosity oil in each component. As an example: SAE 30 engine oil at  $0^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ ) increases the starting load by about 250 percent. Make sure you follow the recommended oil and filter service as shown in this manual.

**3. FUEL SYSTEM:** Check with your fuel supplier for the correct cold weather fuel. Engine power will be reduced if wax particles are in the fuel filters.

Make sure to check for water in the fuel system. Cold temperatures can cause water to collect in the fuel tank. Check the main fuel filter for water every 50 hours of operation. If no water is found, extend the interval. If water is found, check the fuel tank.

**4. COOLING SYSTEM:** Check the coolant mixture before you operate in cold temperatures. A mixture of 50% ethylene glycol and 50% water must be used in this machine. This mixture is used if the lowest ambient temperature is above  $-37^{\circ}\text{C}$  ( $-34^{\circ}\text{F}$ ). If the ambient temperature is lower, adjust the mixture. It is recommended that ethylene glycol and water be used in your machine all year.

**5. COLD TEMPERATURE STARTING AIDS:** See your dealer for extra starting aids such as battery heater, ether cold start fluid, coolant heater, engine oil heaters, etc. See pages 63 through 66.

**6. GENERAL:** Before you operate, move the machine slowly in FIRST gear. Then, stop the machine and actuate the loader or three point hitch controls for about ten minutes or until all cylinders work correctly.

TRIM THIS EDGE

## WHEELS/TIRES



**WARNING:** Exploding tires and/or rim parts can cause injury or death. Keep yourself and others out of the DANGER AREA. Stand on the tread side of the tire. Always use the correct air pressure and follow the instructions in this manual for adding air or servicing the tires.

SD020



**WARNING:** Do NOT weld to wheel or rim when a tire is installed. Welding will cause an explosive air/gas mixture that will be ignited with high temperatures. This can happen to tires inflated or deflated. Removing air or breaking bead is not adequate. Tire MUST be completely removed from the rim prior to welding.

SB134



**WARNING:** Explosive separation of the tire and/or rim parts can cause injury or death. When tire service is necessary, have a qualified tire mechanic service the tire.

84-113

Check the air pressure and the condition of the tires every 100 hours of operation. See page 86 for the correct tire air pressure.

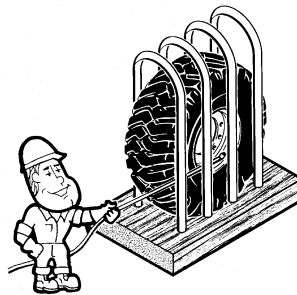
### Tire or Rim Service/ Inflating the Tire

Always have a qualified tire mechanic service the tires and rims on this machine. It is recommended that you have this mechanic inflate the tires. To prevent accidents, always use a restraining device (tire inflation cage), correct equipment, and correct procedure. Explosive separation of the tire can cause serious injury.

### Adding Air to the Tires

This procedure is only for adding air to the tire. If the tire has lost all the air, or service to the tire or rim is required, do the following:

1. Before you add air, have the tire correctly installed on the machine or put the tire in a restraining device (tire inflation cage).



B790490T

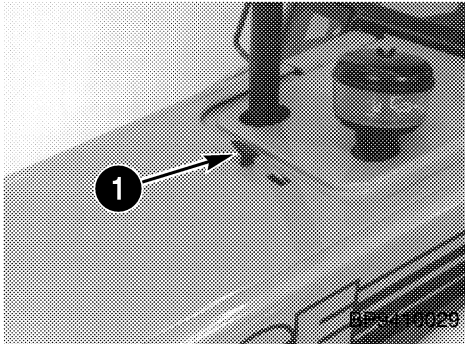
2. Use an air hose with remote shut-off valve and a self-locking air chuck.
3. Be sure to wear face protection. Stand behind the tread of the tire and make sure all persons are away from the side of the tire before you start to add air.
4. Inflate the tire to the recommended air pressure. DO NOT inflate the tire more than the recommended pressure given on page 86.

TRIM THIS EDGE

## LUBRICATION/FILTERS/FLUIDS OPENING THE ENGINE HOOD

### To Open

1. Turn handle counterclockwise to release.



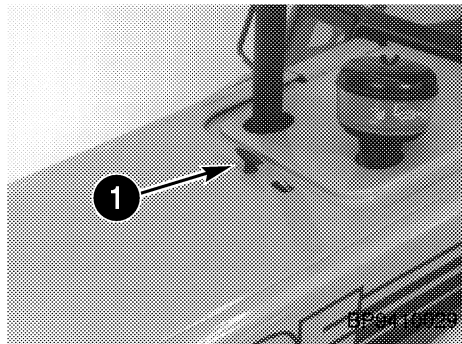
1. Handle

2. Lift hood and rotate forward.



### To Close

1. Lower the hood and turn the handle clockwise to lock.

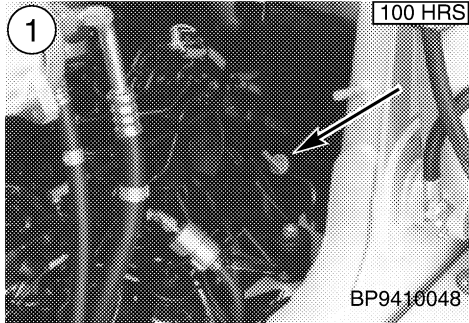


1. Handle

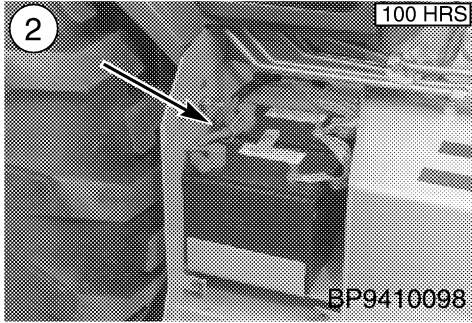
**IMPORTANT:** To avoid damage to the hood parts, always close the hood before moving the loader.

TRIM THIS EDGE

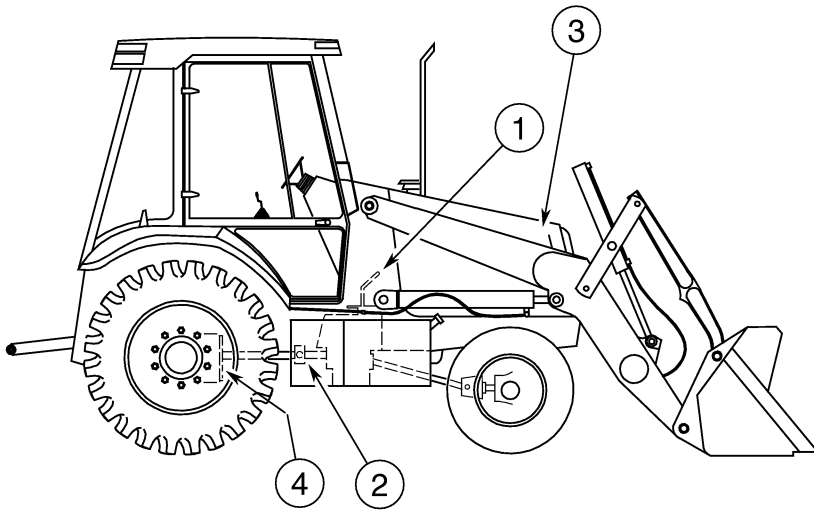
LUBRICATION/FILTERS/FLUIDS



TRANSMISSION FLUID  
CASE HY-TRAN PLUS®

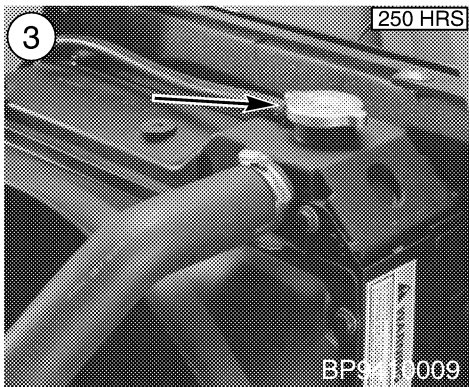


BATTERY(IES)  
DRINKING OR DISTILLED WATER

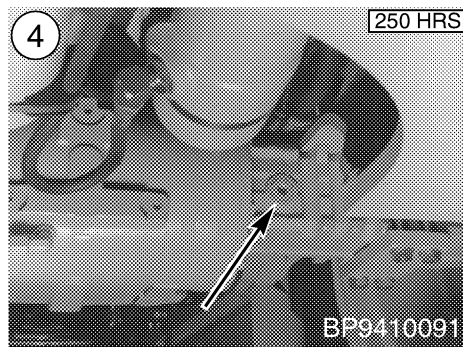


B9412052T

TRIM THIS EDGE



RADIATOR  
ETHYLENE GLYCOL AND WATER



REAR AXLE OIL LEVEL  
SEE PAGE 127 FOR PLANETARIES

## Coolant Levels

**WARNING:** Hot coolant can spray out if radiator cap is removed. To remove radiator cap:



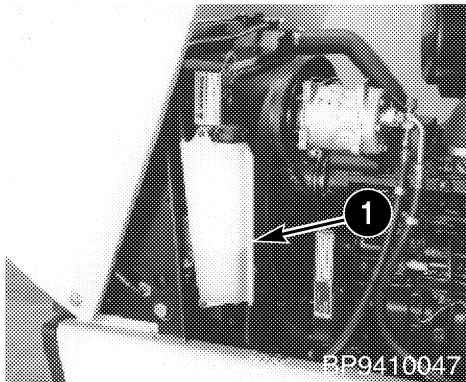
Let system cool, turn to first notch, then wait until all pressure is released. Scalding can result from fast removal of radiator cap.

Check and service engine cooling system according to maintenance instructions.

SA023

### Coolant Reservoir Fluid Level

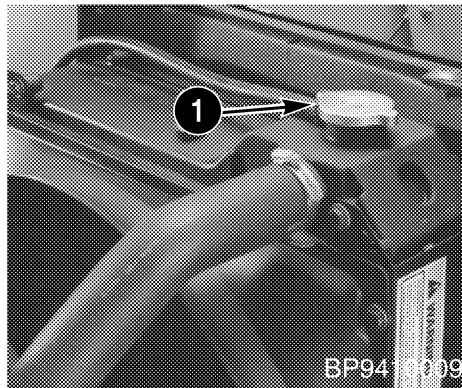
Check the coolant reservoir fluid level every 10 hours of operation or at the start of each day. Check the level when the coolant is cold and the engine is stopped. Do not remove the radiator cap during this check. The coolant level must be between the FULL and ADD marks on the reservoir. Add coolant as required to raise the coolant up to the FULL mark.



1. Coolant Reservoir

### Radiator

Check the coolant level every 50 hours of operation when the coolant is cold and the engine is stopped. The coolant level must be up to the radiator opening.



1. Radiator Cap

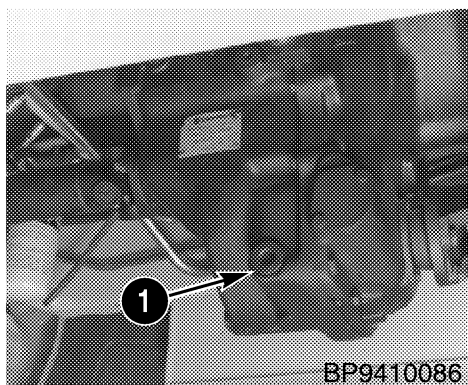
**NOTE:** If the radiator coolant level is low and the coolant reservoir level is at the FULL mark, check for air leaks in the hose between the radiator and the coolant reservoir.

TRIM THIS EDGE

## Transmission Fluid Change, Filter Replacement, and Breather Cleaning

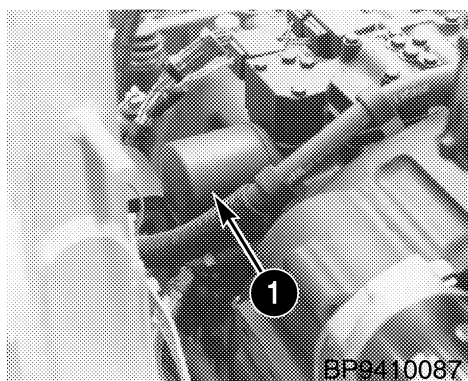
Change the transmission fluid, replace the transmission filter, and clean the breather every 1000 hours of operation.

1. Put a container under the drain plug that will hold 22.7 litres (6 U.S. gallons).
2. Remove the dipstick and the drain plug.



1. Drain Plug

3. Remove the old filter and discard. Clean the filter mounting surface with a cloth.

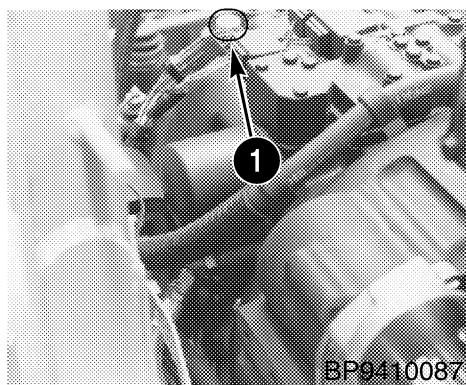


1. Transmission Filter

4. Lubricate the gasket of the new filter with clean oil.
5. Install the new filter and turn clockwise until the gasket contacts the head of the filter assembly. Continue to tighten the filter for 1/3 turn.

**IMPORTANT:** Do not use a filter strap wrench to install the filter. A fluid leak can occur if the filter is dented by the filter strap wrench.

6. Install the drain plug. Put new Case Hy-Tran Plus® fluid into the transmission.
7. Start the engine and check for leaks around the filter.
8. Operate the machine in first and second gear for a few minutes. Stop the machine and stop the engine. Check the fluid level. Add fluid as required.
9. Clean the area around the breather.
10. Remove and clean the breather with solvent every 1000 hours of operation. Wear face protection, blow dry with compressed air, and install the breather.

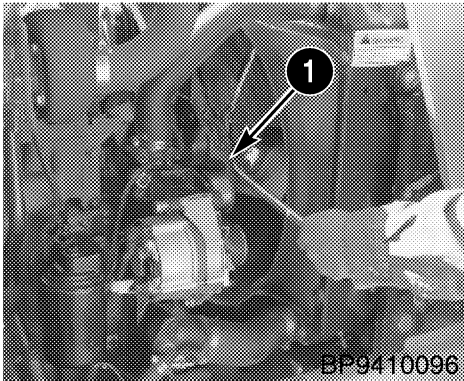


1. Breather

TRIM THIS EDGE

## FAN DRIVE BELT REPLACEMENT

1. Park the machine on a level surface and apply the parking brake.
2. Raise the loader lift arms to full height and install the loader lift arm support strut on the cylinder rod. See page 90.
3. Stop the engine, remove the key, and open the hood.
4. Install a 1/2 inch breaker bar in the tension pulley bracket.



1. Tension Pulley Bracket

5. Push the breaker bar forward just enough to release the tension on the drive belt. Remove the drive belt from the water pump pulley first and then from the other pulleys.

6. Remove the four cap screws, flat washers, and lock washers that fasten the pump drive coupling to the crankshaft pulley.
7. Move the pump drive coupling toward the hydraulic pump.
8. Remove the old drive belt.
9. Install the new drive belt on the water pump pulley and crankshaft pulley.
10. Align the coupling with the crankshaft pulley.
11. Install the cap screws, flat washers, and lock washers that fasten the coupling to the crankshaft pulley. Tighten the cap screws from 95 to 114 Nm (70 to 85 pound-feet).
12. Use the breaker bar to move the tension pulley bracket just far enough to install the drive belt on the alternator pulley.
13. Remove the breaker bar and close the hood.
14. Lower the loader bucket to the ground.

TRIM THIS EDGE

## PLASTIC AND RESIN PARTS

Avoid using gasoline, paint thinner, etc., when cleaning plastic parts, console, instrument cluster, etc. Use only water, mild soap, and a soft cloth when you clean these parts.

Using gasoline, thinners, etc., can cause discoloration, cracking, or deformation of the part being cleaned.

# ELECTRICAL SYSTEM

## BATTERIES

### Battery Safety



**WARNING:** Before you service a battery, always wear face protection, protective gloves, and protective clothing. Battery acid or battery explosion can cause serious injuries.

SA046



**WARNING:** Battery acid causes severe burns. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote - EXTERNAL: flush with water. INTERNAL: drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately. EYES: flush with water for 15 minutes and get prompt medical attention.

SA032



**WARNING:** When the battery electrolyte is frozen, the battery can explode if, (1) you try to charge the battery, or (2) you try to jump start and run the engine. To prevent the battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured.

SA033



**WARNING:** Sparks or flame can cause hydrogen gas in a battery to explode. To prevent an explosion, do the following:

1. When you disconnect the battery cables, always disconnect the negative (-) battery cable first.
2. When you connect the battery cables, always connect the negative (-) battery cable last.
3. Do not short circuit the battery posts with metal items.
4. Do not weld, grind, or smoke near a battery.

SA034

### Battery Service

**NOTE:** The electrical system in this machine is 12 volts.

Before you service components of the electrical system, always disconnect the negative (-) battery cables.

Do not run the engine with the battery cables disconnected or with the alternator wires disconnected.

Before using an electric welder, disconnect the alternator wires, instrument cluster, and battery(ies).

Do not use a steam cleaner or cleaning solvent to clean the alternator.

TRIM THIS EDGE

## OPERATING WEIGHTS

### Base Unit Configuration

2 083 mm (82 inch) standard bucket, 2WD, 17.5L x 24 rear tires, 11L x 16 front tires, no front counterweight, three point hitch, full fuel tank, suspension seat, ROPS cab, dual batteries, no operator ..... 4 766 kg (10 508 pounds)

### Optional Configuration

2 083 mm (82 inch) 4-in-1 bucket, 4WD, 17.5L x 24 rear tires, 11L x 16 front tires, no front counterweight, three point hitch, box scraper, full fuel tank, suspension seat, ROPS cab, dual batteries, no operator ..... 5 843 kg (12 882 pounds)

## LOADER BUCKETS

Width mm (Inch)	Type	Capacities SAE Heaped m <sup>3</sup> (cu yd)	Capacities Struck m <sup>3</sup> (cu yd)	Weight kg (lbs)
2 083 (82)	Standard	0.79 (1.03)	0.67 (.87)	342 (650)
2 083 (82)	4-in-1	0.79 (1.04)	0.65 (.85)	663 (1 462)

TRIM THIS EDGE

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL